

WHAT IS CLAIMED IS:

1. A CATV tuner, comprising:

an input circuit connected to an input terminal for transmitting and receiving a signal to and from a CATV station, the input circuit including an upstream-signal input terminal, a distributor, a low-pass filter, an amplifier, and a downstream-signal output terminal;

a first mixer circuit for mixing an output signal from the input circuit and a first local-oscillation signal so as to generate a first IF signal;

a first oscillation circuit for transmitting the first local-oscillation signal to the first mixer circuit;

a first IF circuit for processing the first IF signal;

a second mixer circuit for mixing an output signal from the first IF circuit and a second local-oscillation signal so as to generate a second IF signal; and

a second oscillation circuit for transmitting the second local-oscillation signal to the second mixer circuit; and

a second IF circuit for processing the second IF signal;

wherein at least one upstream signal is input to the upstream-signal input terminal so as to be transmitted to the CATV station, the distributor distributes a reception signal to generate distributed signals and transmits one of the distributed signals to the downstream-signal output terminal as a downstream signal so that the downstream signal is output therefrom, and the amplifier is arranged between the distributor and the downstream-signal output terminal so as to amplify the downstream signal, and the low-pass filter is arranged between the distributor and the amplifier so as to remove a CATV signal having a frequency that is higher than a predetermined upper limit frequency of the downstream signal.

2. A CATV tuner according to Claim 1, further comprising a high-pass filter arranged between the distributor and the amplifier so as to block the upstream signal.

3. A CATV tuner according to Claim 2, wherein the high-pass filter and the low-pass filter define a bandpass filter.

4. A CATV tuner according to Claim 1, further comprising a resistor arranged between the amplifier and the downstream-signal output terminal.

5. A CATV tuner according to Claim 2, further comprising a resistor arranged between the amplifier and the downstream-signal output terminal.

6. A CATV tuner according to Claim 1, further comprising a tuner case having the input circuit provided therein.

7. A CATV tuner according to Claim 1, wherein an output from one end of the distributor is transmitted to the downstream-signal output terminal via the low-pass filter and the amplifier.

8. A CATV tuner according to Claim 1, wherein an output from one end of the distributor is subjected to processing and transmitted to the first mixer circuit.

9. A CATV tuner according to Claim 6, wherein the amplifier is provided in the tuner case.

10. A CATV tuner according to Claim 1, wherein the low-pass filter functions as a matching circuit for making the downstream signal transmitted from the distributor suitable to be input to the amplifier.